

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-9800 FAX: (517) 335-9600

23 November 2020 Work Order: 2011136

Price: \$260.00

Dan Hamel
EGLE-RRD-JACKSON
301 E. Louis Glick Highway
Jackson, MI 49201-1556

RE: GELMAN SCIENCES, INC

This is the official environmental laboratory report for testing conducted by the Michigan Department of Environment, Great Lakes, and Energy. Analyses performed by the laboratory were conducted using methods published by the U.S. Environmental Protection Agency, Standard Methods for the Examination of Water and Wastewater, ASTM, or other published or approved reference methods.

Kirby Shane Laboratory Director

part 201, dioxin, dioxane, rr



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EGLE-RRD-JACKSON Project: GELMAN SCIENCES, INC

 301 E. Louis Glick Highway
 Site Code: 81000018
 Reported: 11/23/2020

 Jackson MI, 49201-1556
 Project Manager: Dan Hamel
 11/23/2020

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received Qualifier
MW-103s	2011136-01	Water	11/12/2020	11/13/2020
MW-103s dup	2011136-02	Water	11/12/2020	11/13/2020

Notes and Definitions

ND Indicates compound analyzed for but not detected at or above the reporting limit (RL).

RL Reporting Limit
NA Not Applicable



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Client ID: MW-103s Lab ID: 2011136-01

CAS#	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Diox	ane								
123-91-1	1,4-dioxane	85	5.0	ug/L	5	11/17/20	B0K1712	8260 Modified	



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Client ID: MW-103s dup Lab ID: 2011136-02

CAS#	Analyte	Result	Analyzed Result RL Units Dilution Date QC Batch Method (
Organics-Dioxa	ane								
123-91-1	1,4-dioxane	92	5.0	ug/L	5	11/17/20	B0K1712	8260 Modified	



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Organics-Dioxane - Quality Control

Amalysta	Result	RL	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Analyzed	Qualifier	
Analyte	Result	KL	Units	Level	Result	70KEC	Lillits	KPD	LIIIII	Allalyzeu	Quanner	
Batch B0K1712 - Method: 5030					Prepared: 11/17/2020							
Blank (B0K1712-BLK1)												
1,4-dioxane	ND	1.0	ug/L							11/17/2020		
LCS (B0K1712-BS1)												
1,4-dioxane	9.92	1.0	ug/L	10.00		99.2	70-130			11/17/2020		
Matrix Spike (B0K1712-MS1)	Source	: 2011136	-01									
1,4-dioxane	129	5.0	ug/L	50.00	84.6	89.5	70-130			11/17/2020		
Matrix Spike Dup (B0K1712-MSD1) Source: 2011136-01												
1,4-dioxane	143	5.0	ug/L	50.00	84.6	117	70-130	10.3	30	11/17/2020		



Department of Environment, Great Lakes, and Energy Laboratory Services Section

Analysis Request Sheet

Lab W	ork Order Number Project N		ysis ite	7			Matrix		
	2011/36	Ge	lman Sc	iences)		WATER		
Locati		Program CC Email 1				Project TAT Days	Sample Collector		
1	000018/Location 6130	Activity CC Email 2	······································			Project Due Date	Dan Hamel Sample Collector Phone		
	LE-RRD-Jackson	C C C C C C C C C C C C C C C C C C C			TOBLE DAE DRIC	(517) 745-6595			
L	Project Manager	Funding Source CC Email 3					Contract Firm		
	n Hamel					<u>.</u>	CONTROL THE		
State	Project Manager Email	Location Code Overflow Lab Choice	1			Accept Analysis hold time codes	Contract Firm Primary Contact		
	ld@michigan.gov	6130			:				
	Project Manager Phone 7) 745-6595	SUD Location Code Overflow Lab Choice	2				Primary Contact Phone		
10-						<u> </u>			
	Lab Use Only Field Sample Identification		Collection Date	Collection Time	Bottle Count	Comments			
1	01 MW-103	}S	11/12/20	1416	2	Please include QA/Q	C with lab Data Reports		
2	17 MW-1036	~ 1	11/12/20	1 1 2	2	$\overline{}$			
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10									
VO	ORGANIC CHEMISTRY A - Volatile Organic Acidic	MAD - DISSOLVED META Diss - Sliver - Ag 1 2 3 4 5		MA - lver - Ag	TOTAL M		GENERAL CHEMISTRY stal Cyanide - CN 1 2 3 4 5 6 7 8 9 10		
	otiles - Full List		•	uminum - Al			rallable Cyanide CN 12345678910 menable / Weak Acid Dissociable]		
Chlo GRO	orinated only 123456789			oron - B arium - Ba	1 2	3 4 5 6 7 8 9 10 CA, Ch	tho Phosphate - OP 1 2 3 4 5 6 7 8 9 10		
<u> </u>	Dioxane (12)3 4 5 6 7 8 9 FH - Methane, Ethane, Ethene		678910 Be	eryllium - Be Idmlum - Cd	12	3 4 5 5 7 8 9 10 GN Di	ss Ortho Phosphate -*FF 1 2 3 4 5 6 7 8 9 10 trite - NO ₂ 1 2 3 4 5 6 7 8 9 10		
	hane, Ethane, Ethene 1 2 3 4 5 6 7 8 9		6 7 8 9 10 Co	obalt - Co Promium - Cr	1 2 3	345678910 GN N	trate - NO ₃ (Calc.) 1 2 3 4 5 6 7 8 9 10 spended Solids - SS 1 2 3 4 5 6 7 8 9 10		
Pest	ticides & PCBs 1 2 3 4 5 6 7 8 9 ticides only 1 2 3 4 5 6 7 8 9	10 Diss - Copper - Cu 1 2 3 4 5	6 7 8 9 10 C	opper - Cu on - Fe	. 12	3 4 5 6 7 8 9 10 GN DA	ssolved Solids - TDS 1 2 3 4 5 6 7 8 9 10		
РСВ	sonly 123456789	10 Diss - Mercury - Hg 1 2 3 4 5	678910 M	ercury - Hg shium - Li	123	3 4 5 6 7 8 9 10 GN Tu	rbldity 12345678910		
Chlo	ordane 1 2 3 4 5 6 7 8 9	10 Diss - Manganese - Mn 1 2 3 4 5	678910 M	anganese - Mn	12	3 4 5 6 7 8 9 10 MN Bio	carb/Carb Alkalinity 12345678910		
BNA	s 123456789		6 7 8 9 10 Ni	olybdenum - Mo ckel - Ni	123	3 4 5 6 7 8 9 10 MN Ch	includes Total Alkalinity) sloride - Cl		
PNA	zidines 123456789 sonty 123456789	10 Diss - Antimony - Sb 1 2 3 4 5	6 7 8 9 10 Ar	ad - Pb itimony - Sb	123	3 4 5 6 7 8 9 10 MN Su	Joride - F 1 2 3 4 5 6 7 8 9 10		
Acid	only	10 Diss - Strontium - Sr 1 2 3 4 5	6 7 8 9 10 St	lenium - Se rontium - Sr			ss Chromium 6 - FF 1 2 3 4 5 6 7 8 9 10 . Inductivity 1 2 3 4 5 6 7 8 9 10 .		
Libra	anic Specialty Requests ary search - Volatiles 123456789	Diss - Titanium - Ti 1 2 3 4 5 Diss - Thallium - Ti 1 2 3 4 5		tanium - Ti allium - Ti		345678910 MN pH 345678910 GA Ch	1 2 3 4 5 6 7 8 9 10 em Oxyg Dem - COD 1 2 3 4 5 6 7 8 9 10		
	ary search - SemiVols			anium - U nadium - V			ss Org Carbon - DOC-*FF 1 2 3 4 5 6 7 8 9 10 ss Org Carbon - DOC (LF) 1 2 3 4 5 6 7 8 9 10		
DRO	/ORO 123456789 METALS CHEMISTRY PACKAGES	10 Diss - Zinc - Zn 1 2 3 4 5 Diss - Calcium - Ca 1 2 3 4 5		nc - Zn Ilcium - Ca		345678910 (L	ab - Filtered & Preserved) tal Org Carbon - TOC 1 2 3 4 5 6 7 8 9 10		
	femo2 - Total 1 2 3 4 5 6 7 8 9 femo2 - Dissolved 1 2 3 4 5 6 7 8 9	10 Diss - Potassium - K 1 2 3 4 5	6 7 8 9 10 Pc	stassium - K agnesium - Mg	123	3 4 5 6 7 8 9 10 GA An	nmonia · NH3 1 2 3 4 5 6 7 8 9 10		
(Sb,A	is,8a,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,2 nigan10 - Total 1 2 3 4 5 6 7 8 9	Zn) Diss - Sodium - Na 12345	6 7 8 9 10 So	dium - Na irdness - Ca, Mg	1 2 3	3 4 5 6 7 8 9 10 GA Kje	eldahl Nitrogen - KN 12345678910		
Mich	nigan10 - Dissolved 1 2 3 4 5 6 7 8 9		LH	G - Low Level Me	rcury		tal Phosphorus - TP		
1633.1	Relinquished by , 1	1.4343			4.4.3				
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15 Robbins									
8. Org. Signature: Print Name 8. Org. Signature: Print Name						Se Just !			
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Ç	Print Name			744					
	& Org. Signature:								

EGLE Laboratory Services Section Phone: 517-335-9800

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